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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/780,997	02/09/2001	Ken Kutaragi	SCEI 18.303 5883	
26304	7590 11/01/2006	EXAMINER		INER
KATTEN MUCHIN ROSENMAN LLP			SON, LINH L D	
575 MADISON AVENUE NEW YORK, NY 10022-2585			ART UNIT	PAPER NUMBER
			2135	
•			DATE MAILED: 11/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/780,997	KEN KUTARAGI			
Office Action Summary	Examiner	Art Unit			
	Linh LD Son	2135			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•				
. 1)⊠ Responsive to communication(s) filed on <u>02 Au</u>	iaust 2006				
<u> </u>	action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-7,9-12 and 14-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7,9-12 and 14-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers		•			
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	•	ed in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4 Paper No(s)/Mail Date. 5) Notice of Informal Patent Application					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	a.c rippiloution			

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DETAILED ACTION

- 1. This Office Action is responding to the Amendment received on 08/02/06.
- 2. Claims 1-7, 9-12, 14-21 are pending.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7, 9-12, 14-17, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatesan et al, US Patent No. 6898706B1, herein after "Venkatesan", in view of Matsumoto et al, US Patent No. 6286008, hereinafter "Matsumoto".
- 5. As per Claim 1:

Venkatesan discloses "A method of providing a content, characterized in that:

when a content is transmitted to a user, an electronic watermark for preventing execution of said content is embedded in said content and at least information

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associated with the user, to whom said content is to be transmitted, is added to said content; and

when said content is executed, said information associated with the user who has received said content is checked transmitting end

when said content is executed, said information associated with the user is checked at a receiving ends; and

the execution of said content is allowed by removal of said electronic watermark if and only if the result of the checking indicates that said content is an authorized content" in (Col 22 lines 36-54);

(59) Subsequently, when the user stationed at the client PC attempts to access any watermarked object, the client PC, as indicated in block 590, will access the encrypted object, C.sub.i, from encrypted store 580 (or, if the object does not then reside in store 580, will prompt the user to either download that object from the publisher's web site or insert a diskette containing that object into the client PC for subsequent access). Assuming the encrypted object then resides within store 580, that object will be accessed as symbolized by line 587. In addition, the client PC, through execution of block 590, will determine whether a license (L.sub.i) then exists in license database 570 for this object. If such a license is found, the license is accessed as symbolized by line 577. Thereafter, block 590 will verify the license and, if the license is valid, decrypt the object, appearing on line 587, and instruct the O/S in client PC.sub.j to utilize the resulting decrypted fingerprinted, watermarked object in accordance with the rights specified in the license.

However, Venkatesan does not teach of "when said content is executed, said information associated with the user is checked at a receiving ends;"

Nevertheless, Matsumoto discloses a method of deciphering content if the client apparatus is authenticated with server and receiving user information from the server to authenticate at the client" in (Col 11 line 60 to Col 12 line 30).

(12) In the server side apparatus 2, when the user ID UID and data C(R1, Su) are received from the user side apparatus 1 through the communication line 3 (Step S21), the execution program EP2 causes a common secret information search unit 41 to search the user ID UID of plural users registered and stored in a

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data base 42 to have it take out the corresponding registered common secret information Ss from the registered common secret information (Step S22). And, the execution program EP2 causes a data inverse conversion unit 43 to convert inversely the received data C(R1, Su) with the registered common secret information Ss taken out from the data base 42 to obtain a random number R1 (Step S23).

- (13) Next, in the server side apparatus 2, the execution program EP2 newly causes to generate the random information (random number) R2 (Step S24), and the random number R1 obtained by the data inverse conversion unit 43 and the random number R2 are concatenated, the resulting data is read out from the data base 42, and using the registered common secret information Ss read out from the data base 42, the concatenated data is converted by a data conversion unit 44 to generate a data C(R2//R1, Ss) (Step S25), which is caused to transmit to the user side apparatus 1 through the communication line 3 (Step S26).
- (14) At the time when the data C(R2//R1, Ss) is generated in the data conversion unit 44, if money charging processing is necessary, such processing is executed.
- (15) When this data C(R2//R1, Ss) is received (Step S15), in the user side apparatus 1, the execution program EP1 causes a data inverse conversion unit 32 to make inverse conversion with the common secret information Su inputted previously by the user himself to obtain a random number R1 (Step S16). The execution program EP1 compares the random number R1 obtained in the data inverse conversion unit 32 with the random number R1 generated previously by its own at the comparing unit 33 (Step S17), and if they show coincidence, then the program starts the self-uncompression program UP to have the compressed contents CC start to be uncompressed (Step S18).

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify Vénkatesan's invention to incorporate Matsumoto's teaching of authenticate request to the server and also authenticate again at the local host prior decrypting the watermarked content. The Matsumoto's teaching adds additional security layer for accessing the content and also preventing the pirate copy of the watermarked content being executed without any knowledge of the provider.

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6. As per Claims 7 and 12:

Venkatesan discloses "A content providing system according to one of Claims 4 and 5, wherein: when the information associated with a user received from a user terminal is registered, in advance, in the user database of said content provider, said content provider transmits to said user a card on which a card ID is stored" in (Col 15 lines 5-18, Media card and Card ID is the watermark key); and Matsumoto discloses "said information associated with the user includes at least a user name, a password, a device ID uniquely assigned to a device of said user, and said card ID" in (Col 11 lines 60-67).

7. As per Claims 1-5, 9-10, and 14-15:

Venkatesan discloses "A content provider connected to at least one user terminal via a network, said content provider comprising:

a content server which stores plural kinds of digital contents" in (Col 11 lines 1-10); and

"a user database for registering, in advance, information associated with a user received from said at least one user terminal" in (Col 16 lines 60-67), wherein:

when said content provider receives from a user terminal a request for providing a particular content, said content provider requests said user terminal to resend the information associated with said user and transmits the requested content:" in (Col 22 lines 5-35); and

(57) Subsequently, the user, through client PC.sub.j, establishes an Internet

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session with the publisher's web server and as, indicated by block 540, electronically transacts with that server to obtain a license to use the previously downloaded object. In that regard, the user is presented through a web page generated by the publisher's web server with a menu, list or other graphical selection mechanism through which (s)he can select an extent to which (s)he wants to access and use that object, i.e., to obtain so-called "rights". Once the user makes the selection and authorizes electronic payment for the desired rights, the browser, based on embedded code in the web page, transmits, to the publisher's web server, the rights selection, payment authorization and a computer identification (CID) associated with client PC.sub.j. Each client PC has a unique CID. The CID can be formed, in whole or in part, by illustratively a processor serial number (PSN) that has been embedded into the processor itself, e.g., processor 420 of client PC 400 shown in FIG. 4, during its manufacture.

when the content transmitted from said content provider is executed, checking is performed as to whether the information associated with said user included in said content is consistent with the information stored in the user terminal, and said content provider determines, in accordance with the result of the checking, whether to transmit a content execution permission command to said user terminal" in (Col 22 lines 35-54);

(59) Subsequently, when the user stationed at the client PC attempts to access any watermarked object, the client PC, as indicated in block 590, will access the encrypted object, C.sub.i, from encrypted store 580 (or, if the object does not then reside in store 580, will prompt the user to either download that object from the publisher's web site or insert a diskette containing that object into the client PC for subsequent access). Assuming the encrypted object then resides within store 580, that object will be accessed as symbolized by line 587. In addition, the client PC, through execution of block 590, will determine whether a license (L.sub.i) then exists in license database 570 for this object. If such a license is found, the license is accessed as symbolized by line 577. Thereafter, block 590 will verify the license and, if the license is valid, decrypt the object, appearing on line 587, and instruct the O/S in client PC.sub.j to utilize the resulting decrypted fingerprinted, watermarked object in accordance with the rights specified in the license.

wherein: said content provider further includes encryption means for encrypting the information associated with a user and embedding an electronic watermark in said content for preventing execution of said content, and, when said content provider receives from a user terminal a request for providing a particular content, said content

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provider transmits the requested content after combining the requested content with the information associated with said user and with the electronic watermark" in (Col 22 lines 17-35); and

(58) Once this information is transmitted to the publisher's web server, that server issues, as indicated by block 550 shown in FIG. 5, an electronic license (L.sub.i) and transmits, as symbolized by line 555, that license to the client PC. This license, which is signed by the publisher, specifies, among other parameters--which have been alluded to above and will be discussed in detail below, the specific rights of access and use that have been accorded to client PC.sub.j for the downloaded object along with a secret key to decrypt this object. This key, as previously noted, is a symmetric encryption key, i.e., the same key previously used by the publisher to encrypt the object. Upon receipt of this license, the browser routes this license, as symbolized by line 565, to encrypted store 610 and specifically stores this license, within license database 570, for subsequent access. Store 570 contains a repository of licenses for each watermarked encrypted object which the user has downloaded to client PC.sub.j or otherwise has in his possession and desires to access through this PC.

Venkatesan discloses a capability of checking the which user associates to which client pc through the use of PCID in the user database in (Col 16 lines 55-67)

However, Venkatesan does not discloses "wherein said content execution permission command transmitted from said content provider serves to remove said electronic watermark for allowing execution of said content.

said information associated with said user after checking that said information associated with said user is consistent with the information registered in said user database"

Nevertheless, Matsumoto discloses a method of authenticating to the server from a client apparatus, wherein user information is transmitted to the server for authentication.

Once the authentication at the server is successful, the server transmitting back an authorization to authenticate at the client apparatus before allowing the deciphering of

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the watermarked or encrypted content for execution" in (Col 11 line 60 to Col 12 line 30).

- (12) In the server side apparatus 2, when the user ID UID and data C(R1, Su) are received from the user side apparatus 1 through the communication line 3 (Step S21), the execution program EP2 causes a common secret information search unit 41 to search the user ID UID of plural users registered and stored in a data base 42 to have it take out the corresponding registered common secret information Ss from the registered common secret information (Step S22). And, the execution program EP2 causes a data inverse conversion unit 43 to convert inversely the received data C(R1, Su) with the registered common secret information Ss taken out from the data base 42 to obtain a random number R1 (Step S23).
- (13) Next, in the server side apparatus 2, the execution program EP2 newly causes to generate the random information (random number) R2 (Step S24), and the random number R1 obtained by the data inverse conversion unit 43 and the random number R2 are concatenated, the resulting data is read out from the data base 42, and using the registered common secret information Ss read out from the data base 42, the concatenated data is converted by a data conversion unit 44 to generate a data C(R2//R1, Ss) (Step S25), which is caused to transmit to the user side apparatus 1 through the communication line 3 (Step S26).
- (14) At the time when the data C(R2//R1, Ss) is generated in the data conversion unit 44, if money charging processing is necessary, such processing is executed.
- (15) When this data C(R2//R1, Ss) is received (Step S15), in the user side apparatus 1, the execution program EP1 causes a data inverse conversion unit 32 to make inverse conversion with the common secret information Su inputted previously by the user himself to obtain a random number R1 (Step S16). The execution program EP1 compares the random number R1 obtained in the data inverse conversion unit 32 with the random number R1 generated previously by its own at the comparing unit 33 (Step S17), and if they show coincidence, then the program starts the self-uncompression program UP to have the compressed contents CC start to be uncompressed (Step S18).

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify Venkatesan's invention to incorporate Matsumoto's teaching of authenticate request to the server and also authenticate again at the local host prior decrypting the watermarked content. The Matsumoto's teaching adds additional security layer for accessing the content and also preventing the pirate copy of the watermarked content being executed without any knowledge of the provider.

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8. As per Claim 11:

Matsumoto discloses "A content providing system according to one of Claims 9 and 10, wherein said information associated with the user includes at least a user name, a password, and a device ID uniquely assigned to a device of said user" in (Col 11 lines 60-67).

9. As per Claims 16 and 19:

Venkatesan discloses "The method of claim 1, wherein when the result of the checking indicates that said content is an authorized content, key information for removal of said electronic watermark is transmitted to the user" in (Col 15 lines 5-20).

10. As per Claims 17 and 20:

Venkatesan discloses "The method of claim 16, wherein the key information represents a data location of said content at which the electronic watermark is embedded" in (Abstact).

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11. Claims 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatesan et al, US Patent No. 6898706B1, herein after "Venkatesan", in view of Matsumoto et al, US Patent No. 6286008, hereinafter "Matsumoto", and further in view of Ishii, US Patent No. 5768389.

12. As per Claims 18 and 21:

Venkatesan does not discloses "The method of claim 16, further comprising the step of deleting the key information by the user after removal of the electronic watermark.

However, Ishii discloses a method of deleting key after decrypting the data in (Col 22 lines 55-62)

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to incorporate Ishii's teaching of key deletion for safe guarding the decryption key from apprehension.

Response to Arguments

13. Applicant's arguments, see Amendment, filed 08/02/06, with respect to the rejection(s) of claim(s) 1-7, 9-12, 14-21 under U.S.C 102 and 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Venkatesan, Matsumoto, and Ishii.

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh LD Son Examiner Art Unit 2135

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